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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,156	06/21/2005	Yoshio Tsujino	1422-0679PUS1	6601
DIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			EXAMINER	
			' KOSAR, AARON J	
			ART UNIT	PAPER NUMBER
			1609	
		•		
			NOTIFICATION DATE	DELIVERY MODE
		•	05/10/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-5,9-10 drawn to a neutral phenol oxidase and a dye composition comprising neutral phenol oxidase

Group II, claim(s) 6-7, drawn to methods of making neutral phenol oxidase.

Group III, claim(s) 8, drawn to an anti-neutral phenol oxidase antibody.

Group IV, claim(s) 11, drawn to a method of using a dye composition comprising dye and neutral phenol oxidase.

The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

According to 37 CFR 1.475 (b)(1), a product and a process specially adapted for the manufacture of said product have unity of invention. In this case, the product of Group I (e.g. claim 1) and the manufacturing process of Group II (e.g. claim 6) lack unity of invention; although the process of claim 7 could be said to be specially adapted for the manufacture of the product of claim 1, the process of claim 6 is broader in scope, and thus lacks the same special technical feature as the main invention presented in claim 1.

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In addition, ECHIGO (U.S. Patent 6184014) teaches a neutral phenol oxidase having an optimum pH in the range claimed, which can catalyze lignin. Echigo is silent upon the ability of the enzyme to catalyze the color reactions recited in claim 1, part (2); however, the reference enzyme has other characteristics in common with the enzymes disclosed and claimed, such as ability to act on the substrates syringaldazine and o-phenylenediamine (Table 1). The available evidence indicates that the reference enzyme is the same as, or similar to, the claimed enzyme, therefore the enzyme as claimed is seen as lacking a special technical feature, which defines the invention over the prior art. As the *common* technical feature, a neutral phenol oxidase, of groups

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows: Phenol oxidases I, II, and III.

I-IV is not a *special* technical feature, unity of invention is lacking.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

Group I (claims 2 and 3) and Group II (claim 7) correspond to compositions and methods comprising each of the species above. Furthermore Claim 2, indentations 3-7, 3'-7', and 3''-7'' correspond to phenol oxidase I, II, and III, respectively.

It is also noted that claim 7 is an improper multiple dependent claim as it presently is dependent upon claims 6 and claims 1 or 2 (See 37 CFR 1.75(c); MPEP § 608.01(n)).

The following claim(s) are generic: Claims 1,3-5,9,and 10.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

ECHIGO (U.S. Patent 6184014) teaches a neutral phenol oxidase having an optimum pH in the range claimed, which can catalyze lignin. Echigo is silent upon the ability of the enzyme to catalyze the color reactions recited in claim 1, part (2); however, the reference enzyme has other characteristics in common with the enzymes disclosed and claimed, such as ability to act on the substrates syringaldazine and *o*-phenylenediamine (Table 1). The available evidence indicates that the reference enzyme is the same as, or similar to, the claimed enzyme, therefore the enzyme

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as claimed is seen as lacking a special technical feature, which defines the invention over the prior art. As the phenol oxidase species lack a *special* technical feature, unity of invention is also lacking.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained.

Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

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Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron J. Kosar whose telephone number is (571) 270-3054. The examiner can normally be reached on Monday-Thursday, 7:30AM-5:00PM, ALT. Friday, EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mary Mosher can be reached on (571) 272-0235. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Aaron Kosar Patent Examiner

MARY MOSHER
SUPERVISORY PATENT EXAMINER

5-3-07